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DATE: January 23, 2006

TO: Examiner Sujoy K. Kundu

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FACSIMILE NO.: (571) 273-8300

FROM: Beth Pearson-Naul for Kaushik P. Sriram

RE: Serial No.: 10/801,267  
Docket No.: 584-37008-USCP  
Title: "Method and Apparatus For Chemometric Estimations of Fluid Density, Viscosity, Dielectric Constant, and Resistivity From Mechanical Resonator Data"

NUMBER OF PAGES INCLUDING THIS COVER SHEET: 14

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Beth Pearson-Naul**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF:

DiFoggio et al.

Serial No: 10/801,267

Filed: March 16, 2004

Title: Method and Apparatus For  
Chemometric Estimations Of Fluid Density,  
Viscosity, Dielectric Constant, And  
Resistivity From Mechanical Resonator Data

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Docket No: 584-37008-USCP

Art Unit: 2856

Confirmation No.: 4720

Examiner: Kundu, Sujoy K

**SUBSTITUTE RESPONSE TO OFFICE ACTION OF 23 SEPTEMBER 2005 AND****RESPONSE TO NOTICE OF NON-COMPLIANT AMENDMENT DATED****DECEMBER 28, 2005**

Please amend the application as indicated below. Amendments to the claims start on page 2 of this document. Remarks start on page 8 of this document. Reconsideration of the application as amended below is respectfully requested.